



Fact Sheet

US Army Engineer
Research and Development Center
Waterways Experiment Station

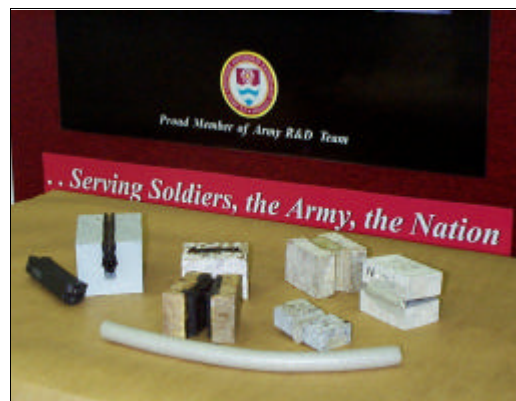
March 2000

Public Affairs Office • 3909 Halls Ferry Road • Vicksburg, MS 39180-6199 • (601) 634-2504 • <http://www.wes.army.mil>

Field Molded Joint Sealant Evaluations

Purpose: Determine the suitability of field molded joint sealants relative to performance requirements.

Background: Sealing products are used in various types of engineering projects. Field molded sealants have many engineering applications within the US Army Corps of Engineers and the Department of Defense. Locks and dams and pavements are only two types of engineered projects that require good quality sealants. Sealants are manufactured to satisfy several standards. Typical performance standards are included in “The Handbook for Concrete and Cement,” a periodically updated publication by the US Army Engineer Waterways Experiment Station (WES). Joint sealant standards are also found in the American Society for Testing and Materials (ASTM) Book of Standards. These sealants may be either jet fuel resistant or non fuel resistant. Single or two component sealants may be specified for the various applications. The one part sealants may require addition of heat to reach a pouring or application viscosity prior to evaluation and project construction. Usually, two part sealants are mixed at non-freezing ambient temperatures. Proper evaluation for compliance to specifications requires that the specific lots or batches of sealants intended for project use are tested.



Facts: The WES is fully equipped and staffed to evaluate field molded sealants. Hand mixed, machine mixed, and single component sealants are evaluated in controlled temperature and humidity environments as required by individual standards. Accelerated weathering equipment is also available for simulating long term performance. We recommend field molded sealant evaluation prior to acceptance and use.

Point of Contact: For more information regarding field molded joint sealant evaluations, contact Mr. George Regan at (601) 634-2728 or e-mail at regang@wes.army.mil. General information on WES is available on the web site at <http://www.wes.army.mil> or <http://pavement.wes.army.mil>.